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	Application No.	Applicant(s)
Notice of Allowability	09/765,981	SHETH, PURNAM ANIL
	Examiner	Art Unit
	Benjamin R. Bruckart	2155
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in t 5) or other appropriate commun RIGHTS. This application is su 13 and MPEP 1308.	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to Request for Consider	eration filed 6-2-05.	
2. A The allowed claim(s) is/are 2-8, 26-32, 50-56, 74-80 and	97-120 are renumbered as 1-5	<u>2</u> .
3. $\boxtimes$ The drawings filed on <u>19 January 2001</u> are accepted by t	the Examiner.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: <ol> <li>Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Copies of the certified copies of the priority documents have 2. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies of the pr</li></ol></li></ul>	ve been received. ve been received in Application locuments have been received :" of this communication to file a	No in this national stage application from the
<ul> <li>THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. A SUBSTITUTE OATH OR DECLARATION must be sublinformal PATENT APPLICATION (PTO-152) which gi</li> </ul>	mitted. Note the attached EXAM	
6. CORRECTED DRAWINGS (as "replacement sheets") me  (a) including changes required by the Notice of Draftspe  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examine  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	erson's Patent Drawing Review  er's Amendment / Comment or i  1.84(c)) should be written on the	n the Office action of drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE	RIAL must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 20050602	) 6. ⊠ Interview Sur Paper No./M 3/08), 7. ⊠ Examiner's A	lail Date <u>20050816</u> . mendment/Comment
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	: 8. ⊠ Examiner's S 9. ☐ Other	tatement of Reasons for Allowance

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) PRIMARY EXAMINER

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview and email with Marc Hanish on 8/16/2005.

The application has been amended as follows:

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In the claims:

27. (Currently Amended) The method program storage device of claim 26 wherein each said local IP address pool further comprises a low watermark that indicates the minimum number of IP addresses used by said network edge device; said determining further comprises ascertaining whether said low watermark of said address pool exceeds a low watermark limit; and said method further comprises indicating one or more IP address pools should be reallocated to reclaim IP addresses from the network element associated with said low watermark when said low watermark exceeds said low watermark limit.

28. (Currently Amended) The <u>method program storage device</u> of claim 27 wherein said reallocating further comprises:

allocating an IP address from IP addresses reclaimed from other IP address pools when said high watermark exceeds said high watermark limit and when the number of unallocated IP addresses is insufficient; allocating an IP addresses from unallocated IP addresses when said high watermark exceeds said high watermark limit and when the number of unallocated IP addresses is sufficient; and

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reallocating one or more IP address pools to reclaim IP addresses from a local IP address pool when said high watermark is less than said high watermark limit and said low watermark is greater than said low watermark limit.

- 29. (Currently Amended) The method program storage device of claim 26 wherein each said local IP address pool further comprises a low watermark that indicates the minimum number of IP addresses used by said network edge device; said determining further comprises ascertaining whether said low watermark of said address pool exceeds a low watermark limit; and said method further comprises indicating one or more IP address pools should be reallocated to reclaim IP addresses from the network element associated with said low watermark when said low watermark exceeds said low watermark limit.
- 30. (Currently Amended) The <u>method program storage device</u> of claim 27 wherein said low watermark is expressed as a percentage of allocated IP addresses; and said high watermark is expressed as a percentage of allocated IP addresses.
- 31. (Currently Amended) The <u>method program storage device</u> of claim 30 wherein said network

operates according to a simple network management protocol (SNMP).

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32. (Currently Amended) The method program storage device of claim 31 wherein said low watermark is stored in an expression MIB; and said high watermark is stored in an expression MIB.

The following is an examiner's statement of reasons for allowance:

Claims 2-8,26-32,50-56,74-80 and 97-120 renumbered to claims 1-52 are allowable over the prior art of record.

The examiner has found that the prior art of record does not teach or suggest or render obvious a system a system, method, apparatus or program storage device managing IP addresses for allocating and reallocation comprising: requesting usage data from local IP pools and using high watermarks and low watermarks of the pool to indicate measurement of a maximum and minimum of the number of IP addresses used by the network edge device in updating one or more of the local IP address pool databases and a global IP pool database based usage data and thresholds being reached in a data communications environment.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **CORRESPONDANCE INFORMATION**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R Bruckart whose telephone number 571-272-3982.

The examiner can normally be reached on 8:00-5:30 PM with every other Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-3982.

Benjamin R Bruckart Examiner Art Unit 2155

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